## What is claimed is:

- A carrier for cell culture which comprises a carrier having a cationic group and polypeptide-modified portions formed on a surface of the carrier in a sea-island structure.
- 2. The carrier for cell culture according to claim 1, wherein the carrier is a polymer compound, an inorganic compound, or an organic compound.
  - 3. The carrier for cell culture according to claim 1, wherein the carrier is glass.
- 4. The carrier for cell culture according to claim 1, wherein the carrier is a water-containing polymer gel.
- 5. The carrier for cell culture according to claim 4, wherein the carrier is a water-containing anionic polymer gel.
- 6. The carrier for cell culture according to claim 5, wherein the carrier having a cationic group is a water-containing gel comprising a water-containing anionic polymer gel added with chitosan or a water-containing gel comprising a water-containing anionic polymer gel adsorbed with chitosan.
- 7. The carrier for cell culture according to claims 1, wherein the polypeptide is a cell-adhesive polypeptide.
- 8. The carrier for cell culture according to claim 8, wherein the polypeptide-modified portion is formed with an aqueous gel containing an extracellular matrix component.
- 9. The carrier for cell culture according to claim 1, wherein one independent polypeptide-modified portion has an area of from  $50 \,\mu$  m<sup>2</sup> to  $2 \, \text{mm}^2$ .
- 10. A method for cell culture which comprises the step of inoculating cells on a surface of the carrier for cell culture according to claim 1.
  - 11. A Cell culture obtained by the method according to claim 10.
- 12. A carrier for cell culture comprising a water-containing gel comprising alginic acid, wherein a surface of the carrier is coated with collagen, and wherein the collagen is bound to a surface of the water-containing gel by means of chitosan.
- 13. The carrier for cell culture according to claim 12, wherein the water-containing gel contains calcium alginate gel or alginic acid/polylysine gel.
- 14. The carrier for cell culture according to claim 12, wherein the binding by means of chitosan is a binding between a collagen layer and a surface of the

water-containing gel intermediated by a chitosan layer.

- 15. The carrier for cell culture according to claim 12, wherein the water-containing gel is formed on a porous membrane.
- 16. A method for producing the carrier for cell culture according to claim 12, which comprises the step of successively immersing a water-containing gel comprising alginic acid in a chitosan solution and then in a collagen solution.
- 17. A method for culturing cells, which comprises the step of allowing cells to form a cell layer on the carrier for cell culture according to claim 12.
  - 18. A cell culture obtained by the method according to claim 17.
- 19. A method for producing cell culture, which comprises the step of allowing cells to form a cell layer on a surface of the carrier for cell culture according to claim 12 and the step of solubilizing the water-containing gel comprising alginic acid.
  - 20. A cell culture obtained by the method according to claim 19.